

Bid 23/10/2008 1627

METALUX SOLUTIONS (MONTRÉAL) INC.
2108, 32E AVENUE
LACHINE, QUEBEC
H8T 3H7

Tel : (514) 633-8010

Sales Rep. : ÉRIC
Reference : LINDA LACELLE
Expiration Date : 22/12/2008

Customer : 6323336

Ship To :

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Fax : 1 (613) 632-4443

Item No.	Description	Qty.	Price	Total	Tx
SH123	303 HEX .500 9 X 12'	108	8.30	896.40	A
	OU				
SH123	303 HEX .500 17 X 12'	204	7.69	1 588.76	A

DELIVERY APPROX 1 WEEK

F.O.B MONTREAL.

THANKS.

ERIC KAEHLERT.

Subtotal 2 485.16

TPS : 123.26

A) Regist :

Total : 2 588.42

**OUTO
KUMPU**

Certificate of Test

* CERTIFICATION *

HEAT E50377

ORDER 0496191/001 SON 28063C BQL 0149304 TAG 1851525 05/07/08

SHIP TO:

Dart Aerospace Ltd

P.O. 7447

P/S 56842

01-40367

5/07/08

YOUR ORDER & DATE
CUST# CASTLE01

CUST TAG# IAC 4901

ITEM DESCRIPTION

GRADE 303

Size 303 CDA HEX BAR 1/2 STD

Ship Condition A

Country of Melt: BRI
Country of Mfg.: USA
NAFTA Country of Origin is Country of Melt

Total Bundles 1 SON Weight 2200

SPECIFICATIONS

MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED FROM BRITAIN

AMS 5640U TYPE I

ASTM A582 05

SOLUTION ANNEALED CONDITION

AISI-303, UNS S30300, 9AE30303

UNS S30300, AISI 303

AM CASTLE 3303-11 R27

ASTM A484 06B

DIN 50049/EN 10204 3.1B

FREE OF CONT. CARBIDE NETWORK

NO WELD REPAIR

FREE OF MERCURY CONTAMINATION

MECHANICAL & OTHER TESTS

Test Condition A

Hardness as shipped 230 HBW

Hardness as shipped 97 HRBS

Hardness as converted from tensile 8.5

Grain size OK

Micro OK

Intergranular corrosion OK

Tensile strength, KSI (MPa) 111.0 (765)

0.2% Yield Strength, KSI (MPa) 98.5 (679)

Elongation % in 4D 37.0

Reduction of area % 55.0

CHEMICAL COMPOSITION

Carbon (C) .043
Phosphorus (P) .028
Silicon (Si) .430
Nickel (Ni) 8.660
Copper (Cu) .422
Nitrogen (N) .051
Titanium (Ti) .003
Tin (Sn) .012
Tantalum (Ta) .002
Columbium/
Tantalum (Cb-Ta) .003
Iron (Fe) Balance
Melt Practice EAF
Refining Practice AOD
De-long Ferrite 2.0

Manganese (Mn) 1.740
Sulphur (S) .338
Chromium (Cr) 17.250
Cobalt (Co) .119
Moly (Mo) .450
Columbium (Cb) .001
Aluminum (Al) .003
Boron (B) .001
Vanadium (V) .070

DATE RCVD 5/9/08
IAC 4901
APPROVED BY *[Signature]*

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes.

We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager

Outokumpu Stainless Bar, Inc.
3043 Cranshaw Pkwy.
Richmond, SC 29128

M.F. Marcanio

Shipping Order

24/10/2008

IX SOLUTIONS (MONTREAL) INC.
11 AVENUE
MACHINE, QUEBEC
H8T 3H7
Tel.: (514) 633-8010

Order : 56842
Reference : 7447
Bill : 1627
Ship : NOTRE CAMION / OUR TRUCK
TST / collect

Customer: 6323338

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Att: Chantal

Same

Tel.: 1 (613) 632-3336

Item No.	Description	Qty.	Qty. Delivered	E/O Qty
SH123	303 HEX .500 17 X 12'	204	204	✓

F.O.B MONTREAL.

CERTIFICATE REQUIRED

EK

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref: _____

Shipping Order

24/10/2008

METALUX SOLUTIONS (MONTRÉAL) INC.
2108, 52E AVENUE
LACHINE, QUÉBEC
H8T 3A7

Tél: (514) 333-1100

Order : 58842
Reference : 7447
Bill : 1927
Ship

Ship To

NEGRE-GAMIGNY-GRU-TRUCK
TST / collect

Clientèle : 6323336

Service

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAMMERSBURY, ONTARIO
M5A 1K7

Tél: 1 (613) 632-8835

Item No. Description

SN103 303 HEX 500
47 X 12

Qty. Qty. Delta B/O Qty
204 204

✓ 24/11/03

F.O.B MONTREAL

CERTIFICATE REQUIRED

EX

Shipping
Package No
Merchandise Received

Ref

DART

Purchase Order

Date Oct 24, 2008	Page 1
Purchase Order Number PO00007447	

FAKED
(8/28/10/24)

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613)632-9577
Fax: (613)632-1053

Vendor Address:

Metaux Solutions
2108, 32e Avenue
Lachine, QC H8T 3H7
Phone (800) 558-8858
Fax (514) 633-8044

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Contact	Vendor Number	PO Date	Terms	Ship Via	Expected Arrival
		VC-MET002	Oct 24, 2008	N30	yours	Oct 31, 2008

Qty. Ordered	Item Number	Description	Expected Arrival	Drop-Ship	Unit Cost	UOM	Extended Price
204.0000	M303H0500	303 HEX BAR .500 Comments: MATERIAL: AISI 303 HEX BAR NOTE: AISI 304/316 NOT ACCEPTABLE	31/10/2008	No	7.690000	f	1,568.76
<div>10/24/08</div> <div>MATERIAL CERTIFICATION REQ'D UPON DELIVERY</div> <div>RUSH</div>							
Comments: please fax packing slip + material cert thanks Chantal.		Tax Summary: GST 78.44 GSTME 0.00 GSTND 0.00		Less: included tax 0.00 Subtotal 1,568.76 Total tax 78.44 Total purchase order in CAD Dollars 1,647.20		Entered By: CLAVOIE Approved By:	

Dart Aerospace Ltd

Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7
Phone: (613) 632-3336
Fax: (613) 632-4443

Receiving Slip

Date	Page
Nov 5, 2008	1

Receipt Number
RCP00009350

Purchase From:

Metaux Solutions
2108, 32e Avenue
Lachine, QC H8T 3H7

Ship To:

Main Finished Goods Location
Dart Aerospace Ltd
1270 Aberdeen St
Hawksbury, Ontario K6A 1K7

Reference	Description	Contact	Vendor Number	PO Number
			VC-MET002	PO00007447

Vendor Item Number	Item Number	Description	Qty. Received	UOM	Unit Cost	Extended Cost	Arrival Date
	M303H0500	303 HEX BAR .500 NOTE: AISI 304/316 NOT ACCEPTABLE MATERIAL: AISI 303 HEX BAR B/N109778	204.0000	f	7.690000	1,568.76	Nov 05, 2008

Comments:

Invoice	DATE 31/10/2008	N°/NO. 97982
----------------	---------------------------	------------------------

Sales Rep. : ÉRIC
Order : 56842
Reference : 7447
Terms : NET 30 JOURS / NET 30 DAYS
Ship : TST

Ship To :

Same

Tel. : 1 (613) 632-3336

Customer : 6323336

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

<i>Item No.</i>	<i>Description</i>	<i>Ord</i>	<i>Inv.</i>	<i>B/O Qty</i>	<i>Price</i>	<i>Total</i>	<i>Tx</i>
SH123	303 HEX 500 17 X 12'	204	204	0.	7.69	1 568.76	A

SHIP TST/COLLECT

CERTIFICATE REQUIRED

EK

RECEIVED NOV 06 2008

4) Regist :

Subtotal : 1 568.76
TPS : 78.44
Total : 1 647.20

Receiving Report

Date: 8/11/03

Batch No: M109778

Supplier: MedaX solution

Dart P/O: 7447

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☐ No ☒ N/A
 Waybill Attached: Yes ☒ No ☐ N/A
 Shipment Complete: Yes ☒ No ☐ N/A
 QC6 Inspection 08/11/03 Yes ☒ No ☐ N/A
 Work Order N/A ☒

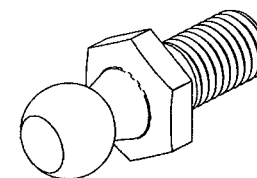
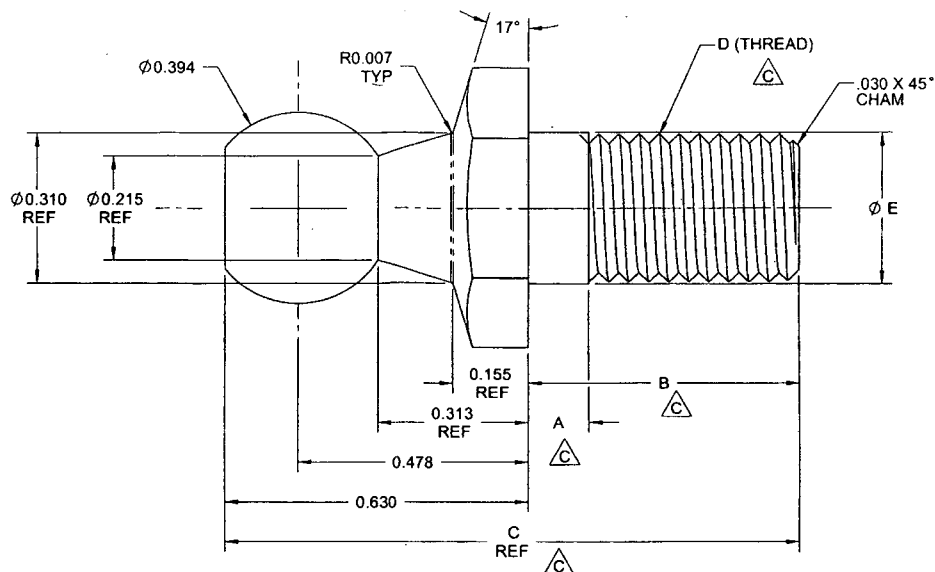
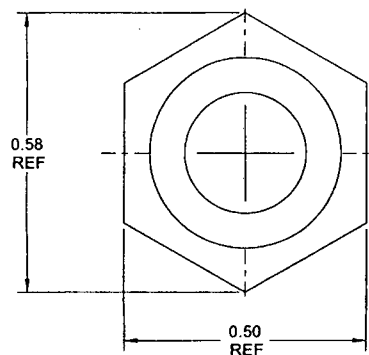
Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

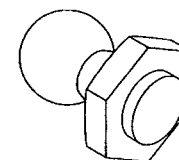
Initials of receiver (if shipment OK) Level 12

Production/Admin: 0811105
 Date: 8/11/03
 Received/Costing: RC 9350
 Initial: CG

Location



**D3622-1 BALL STUD
SHOWN**



**D3622-11 BALL STUD
SHOWN**

PART NUMBER	DIM A	DIM B	DIM C	WEIGHT (LBS)	THREAD D	Ø E	
						MIN	MAX
D3622-1	0.125	0.563	1.19	0.03	0.3125-24UNF-3A	0.3053	0.3125
D3622-3	0.125	0.563	1.19	0.03	0.1875-32UNF-3A	0.1840	0.1900
D3622-5	0.090	0.900	1.53	0.04	0.3125-24UNF-3A	0.3053	0.3125
D3622-7	0.060	0.330	0.96	0.03	0.3125-24UNF-3A	0.3053	0.3125
D3622-9	0.090	1.160	1.79	0.04	0.3125-24UNF-3A	0.3053	0.3125
D3622-11	0.060	N/A	0.69	0.02	NOT THREADED	0.270	0.300
D3622-13	0.090	0.680	1.31	0.03	0.3125-24UNF-3A	0.3053	0.3125

D3622-X BALL STUD



RELEASED
2010-09-23

NOTES:

- 1) MATERIAL: AISI 303 HEX BAR
REF DART SPEC M303H0.500
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENT P/N D3622-X & B/N PER QSI 044
- 7) WEIGHT: SEE D3622-X TABLE

u/062505

C	SHEET 1: ADD -5, -7, -9, -11 & -13. ADD D3622-X TABLE. SHEET 2 DELETED	JPH	10.07.20
B	ADD -3 (SHEET 2)	HS	09.09.18
A	NEW ISSUE	MB	07.04.13
REV.	DESCRIPTION	BY	DATE
DESIGN	JPH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	JPH		
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3622	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BALL STUD	NTS
DATE	10.07.20	COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Picklist Print

October 1, 2010 10:03:59 AM

Page 1

Work Order ID: 62505

Parent Item: D3622-11

Parent Item Name: Ball Stud





Start Date: 10/01/10

Required Date: 10/05/10

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP REV:A NEW ISSUE 10-09-23 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303H0.500  303 HEX BAR .500		Purchased	No			100	f	124.2380	0.108 	0.682105		5/10/10/01	

Location

Loc Qty

Loc Code

MAT037

124.238

109778

100.238

109846

24

5/10/10/01

Work Order ID 62505

October 1, 2010 10:04:00 AM



Page 2

Item ID: D3622-11

Accept



Setup Start



Revision ID:

Stop



Item Name: Ball Stud

Start Date: 10/01/10 Start Qty: 6.00



Cust Item ID:

Required Date: 10/05/10 Req'd Qty: 6.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

130

Identify as per dwg & Stock Location: DWLD.

0.00



Packaging

Memo

0.00

Packaging

BY 10/10/12

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10.10.12

10-10-12

Work Order ID 62505

October 1, 2010 10:03:59 AM

Page 1

Item ID: D3622-11

Accept

Setup Start

Revision ID:

Stop

Item Name: Ball Stud

Start Date: 10/01/10 Start Qty: 6.00

Cust Item ID:

Required Date: 10/05/10 Req'd Qty: 6.00

Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3622

C

100

0.00



Hardinge CNC LATHE SMALL

Hardinge

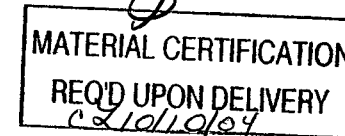
Memo

0.00

Hardinge CNC Lathe Small

1-TURN AS PER FOLIO F969 & DWG D3622,
FOLIO REV: C
DWG REV: C
2-DEBURR AS REQUIRED

SA 10/10/01



110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

Quality Control

SA 10/10/01

6 0

120

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

Quality Control

SA 10-10-05

6 0